Ethernet Extension Experts

Enable-IT 820P Pro Series Extended Ethernet Quickstart Guide

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INSTALLING THE 820P PRO EXTENDED ETHERNET KIT

The Enable-IT 820P Pro Extended Ethernet Kit has a distance restriction of 800ft or 244m over Category 2 up to Category 6 wiring from device extension to device extension. Therefore quick, simple site surveys and installation planning are highly recommended.

This chapter describes the recommended installation process for the Enable-IT 820P Pro Extended Ethernet Kit. It covers the following topics:

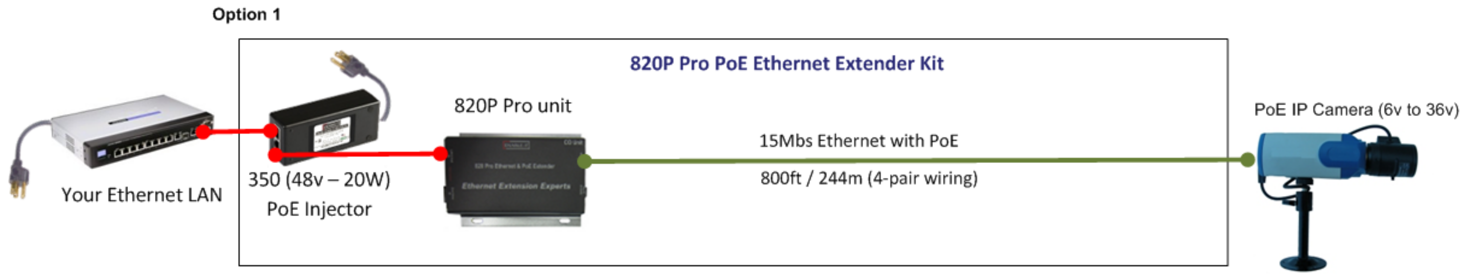
- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 820P Pro Extended Ethernet Kit
- Performing the On-Site Installation

Site Plan - Installation Design Considerations

- Total distance of 1,100ft wiring from 350 PoE Injector to LAN device on the remote end.
- 4 Pair Telco wiring for the Enable-IT 820P Pro Extended Ethernet Unit.
- Wire pair used must be straight through, no taps/connection points.
- Twisted Pair cabling delivers the best performance over distance.
- Cisco PoE single line injector support built in.
- Transparent to single line 802.3af PoE or 802.3at PoE Plus devices.

Option 1 – Single line PoE LAN Extension up to 800ft / 244m

We highly recommend a quick test to ensure the working order of your 820P Pro unit. To do this, please power on the 350 PoE Injector. Attach a patch cord from your LAN source to the PoE/Data IN port on the injector. Then run another patch cord from the PoE/Data OUT port to the LAN & PoE IN port on the 820P Pro unit. Next, use one of the Ethernet patch cords provided and attach one end to the Interlink Out port on the 820P Pro unit and the other end connected to your remote PoE device. The 820P Pro unit and your PoE LAN device should now be powered up and running.



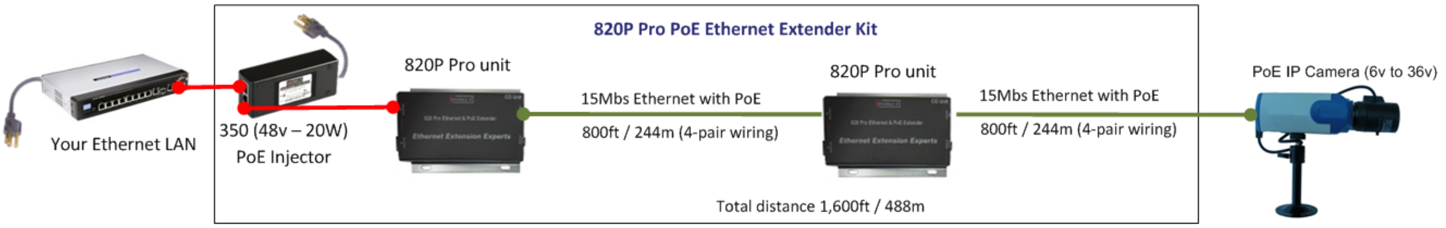
Network Configuration

In some instances, your Ethernet switch, desktop computer, laptop, WiFi Access Point, or any LAN device not mentioned may need to be configured for 10Mbps auto-sensing as the 820 Pro is a 10Mbps Ethernet switch. It may be the case that your Ethernet switch is not passing data through the 820 Pro to your remote LAN device, therefore setting the LAN configuration on your device to 10Mbps will allow it to recognize the 820 Pro switch settings.

Option 2 – Single line PoE LAN Extension up to 1,600ft using an additional 820P Pro device daisy-chained with the original.

To do this, please power on the 350 PoE Injector with the supplied power cord. Attach a patch cord from your originating LAN source to the PoE/Data IN port on the injector. Then run another patch cord from the PoE/Data OUT port to the LAN & PoE IN port on the 820 Pro unit. Now you may daisy chain the 2nd 820P Pro unit by connecting a patch cord from the Interlink Out port on your 1st 820P to the LAN & PoE IN port on the 2nd 820P Pro unit. Next, attach a PoE LAN device to the Interlink Out port on the 2nd 820P Pro unit. The 820P Pro units as well as your remote PoE device should now be powered up and running.

Option 2



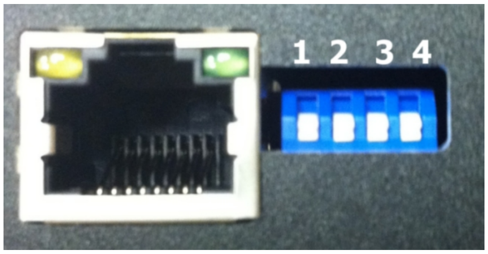
LED indicators will provide visual operational status of the 820P Pro units.

820 LAN & PoE IN – Slow yellow LED flashing indicates LAN connectivity.
Flickering yellow LED indicates LAN traffic.

820 Interlink Out – Solid green LED indicates PoE power.

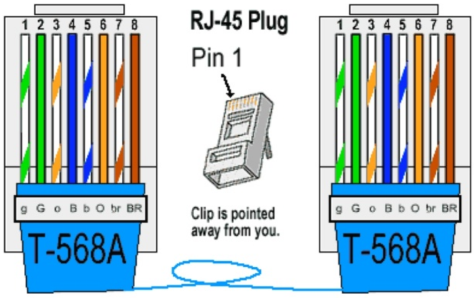
DIP Switch Settings: DIP switches 1 – 4:
Down (ON) - Enable PoE pass-through
UP (OFF) – Disable PoE pass-through

Default DIP Settings: DIP switches 1 – 4:
Down (ON) PoE Enabled for Data / PoE use



For installation at your desired location, keep in mind the following:
The backbone cable between the CO and your end device – RJ-45 Interlink ports uses all 4-pairs of wiring for data and PoE (1, 2, 3 & 6 for data and 4, 5, 7 & 8 for PoE).

T-568A Straight-Through Ethernet Cable



DO NOT INSERT ANY BLANK RJ-45 HEADS INTO ANY PORTS BEFORE CRIMPING – OTHERWISE YOU WILL RENDER THE PORT USELESS – BENT PINS

Attach RJ-45 Male heads to your existing wiring and follow the diagram below. For data only use pins 1,2,3 & 6. For Data and PoE use all pins. PoE uses pins 4,5,7 & 8

Unpacking the Enable-IT 820P Pro Extended Ethernet Kit

Carefully remove the Enable-IT 820P Pro Extended Ethernet Unit and all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact your Enable-IT or your distributor for assistance.

- (1) Enable-IT 820P Pro Extended Ethernet Unit
- (1) Enable-IT 350 PoE Injector 20W – 48v & power cord
- (1) LAN Ethernet Patch Cord for end device attachment
- (1) Enable-IT Quickstart Guide

Technical Support

Enable-IT OEM Technical Support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services

The Enable-IT Support Portal is available 24/7. No password or user account is necessary. Please use this support website as your first source for help as it contains an on line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.
http://support.enableit.com

Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty or extended warranties.**

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then current RMA policy; (2) return the Product to Enable-IT, Inc. in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Please ship Authorized RMAs to:

Enable-IT Processing Facility
16600 Harbor Blvd, Ste I (India)
Fountain Valley, CA 92708

Returning Products for Refund

45-Day refund applies to single kit Ethernet Extenders only and is subject to a 15% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

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